(1) Finite residues will be present in the edible products—in which case a finite tolerance is required; or

(2) It is not possible to determine whether finite residues will be incurred but there is reasonable expectation that they may be present—in which case a tolerance for negligible residue is required; or

(3) The drug induces cancer when ingested by man or animal or, after tests which are appropriate for the evaluation of the safety of such drug, has been shown to induce cancer in man or animal; however, such drug will not adversely affect the animals for which it is intended, and no residue of such drug will be found by prescribed methods of analysis in any edible portion of such animals after slaughter or in any food yielded by or derived from the living animal—in which case the accepted method of analysis shall be published or cited, if previously published and available elsewhere, in this part; or

(4) It may or may not be possible to determine whether finite residues will be incurred but there is no reasonable expectation that they may be present—in which case the establishment of a tolerance is not required; or

(5) The drug is such that it may be metabolized and/or assimilated in such form that any possible residue would be indistinguishable from normal tissue constituents—in which case the establishment of a tolerance is not required.

(b) No tolerance established pursuant to paragraph (a)(1) of this section will be set at any level higher than that reflected by the permitted use of the drug.

(c) Any tolerance required pursuant to this section will, in addition to the toxicological considerations, be conditioned on the availability of a practicable analytical method to determine the quantity of residue. Such method must be sensitive to and reliable at the established tolerance level or, in certain instances, may be sensitive at a higher level where such level is also deemed satisfactory and safe in light of the toxicity of the drug residue and of the unlikelihood of such residue's exceeding the tolerance.

Subpart B—Specific Tolerances for Residues of New Animal Drugs

§ 556.20 2-Acetylamino-5-nitrothiazole.

A tolerance of 0.1 part per million is established for negligible residues of 2-acetylamino-5-nitrothiazole in the edible tissues of turkeys.

§ 556.30 Aklomide.

Tolerances are established for combined residues of aklomide (2-chloro-4-nitrobenzamide) and its metabolite (4-amino-2-chlorobenzamide) in uncooked edible tissues of chickens as follows:

(a) 4.5 parts per million in liver and muscle.

(b) 3 parts per million in skin with fat.

§ 556.34 Albendazole.

Tolerances are established for residues of albendazole in uncooked edible tissues as follows:

(a) *Cattle.* The tolerance for the 2-aminosulfone metabolite (marker residue) in cattle liver (target tissue) is 0.2 part per million. The tolerance refers to the concentration of marker residue in the target tissue used to monitor for total drug residues in the target animals.

(b) *Sheep.* The tolerance for the 2-aminosulfone metabolite (marker residue) in sheep liver (target tissue) is 0.25 part per million.

[59 FR 65711, Dec. 21, 1994]

§ 556.38 Amoxicillin.

A tolerance of 0.01 part per million is established for negligible residues of amoxicillin in milk and in the uncooked edible tissues of cattle.

[49 FR 45422, Nov. 16, 1984]

§ 556.40 Ampicillin.

A tolerance of 0.01 p/m is established for negligible residues of ampicillin in the uncooked edible tissues of swine and cattle and in milk.

§ 556.50 Amprolium.

Tolerances are established as follows for residues of amprolium (1-(4-amino-2-*n*-propyl-5-pyrimidinylmethyl)-2-picolinium chloride hydrochloride):

(a) In the edible tissues and in eggs of chickens and turkeys:

(1) 1 part per million in uncooked liver and kidney.

(2) 0.5 part per million in uncooked muscle tissue.

(3) In eggs:

(i) 8 parts per million in egg yolks.

(ii) 4 parts per million in whole eggs.

(b) In the edible tissues of calves:

(1) 2.0 parts per million in uncooked fat.

(2) 0.5 part per million in uncooked muscle tissue, liver, and kidney.

(c) In the edible tissues of pheasants:

(1) 1 part per million in uncooked liver.

(2) 0.5 part per million in uncooked muscle.

[40 FR 13942, Mar. 27, 1975, as amended at 50 FR 18472, May 1, 1985]

§ 556.52 Apramycin.

Tolerances of 0.1 part per million are established for total residues of apramycin in uncooked swine muscle, 0.3 part per million for liver, and 0.4 part per million for kidney and fat. A drug residue assay measuring parent apramycin (the marker residue) in the target tissue, kidney, serves to monitor the total residue in edible tissues. A marker residue concentration of 0.1 part per million in kidney corresponds to 0.4 part per million total residue in this target tissue.

[47 FR l5771, Apr. 13, 1982]

§ 556.60 Arsenic.

Tolerances for total residues of combined arsenic (calculated as As) in food are established as follows:

(a) In edible tissues and in eggs of chickens and turkeys:

(1) 0.5 part per million in uncooked muscle tissue.

(2) 2 parts per million in uncooked edible by-products.

(3) 0.5 part per million in eggs.

(b) In edible tissues of swine:

(1) 2 parts per million in uncooked liver and kidney.

(2) 0.5 part per million in uncooked muscle tissue and by–products other than liver and kidney.

§ 556.70 Bacitracin.

Tolerances for residues of bacitracin from zinc bacitracin or bacitracin methylene disalicylate are established at 0.5 part per million (0.02 unit per gram), negligible residue, in uncooked edible tissues of cattle, swine, chickens, turkeys, pheasants, and quail, and in milk and eggs.

[42 FR 18614, Apr. 8, 1977]

§ 556.90 Buquinolate.

Tolerances are established for residues of buquinolate as follows:

(a) In edible tissues of chickens:

(1) 0.4 part per million in uncooked liver, kidney, and skin with fat.

(2) 0.1 part per million in uncooked muscle.

(b) In eggs:

(1) 0.5 part per million in uncooked yolk.

(2) 0.2 part per million in uncooked whole eggs.

§ 556.100 Carbadox.

No residues of carbadox (Methyl 3-(2-quinoxalinylmethylene) carbazate-N^1, N^4-dioxide) and its metabolite (quinoxaline-2-carboxylic acid) are found in the uncooked edible tissues of swine as determined by the following method of analysis:

I. REAGENTS

A. Benzene—Distilled-in-Glass grade, Burdick and Jackson Laboratories or equivalent.

B. Ethyl acetate—Distilled-in-Glass grade, Burdick and Jackson Laboratories or equivalent.

C. n-Hexane—Distilled-in-Glass grade, Burdick and Jackson Laboratories or equivalent.

D. 1-Propanol—reagent grade, dried over molecular sieve pellets (5A).

E. Citric acid monohydrate—U.S.P., Pfizer, Inc., or equivalent.

F. Potassium hydroxide—pellets, reagent grade.

G. Sodium hydroxide—pellets, reagent grade.

H. Hydrochloric acid—reagent, A.C.S.

I. Sulfuric acid—reagent, A.C.S.

J. Sodium sulfate—anhydrous, reagent grade.

K. Quinoxaline-2-carboxylic acid—Pfizer, Inc., or equivalent.

L. Propyl quinoxaline-2-carboxylate—Pfizer, Inc., or equivalent.